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Previous Correction:

see PCT Gazette No. 04/2006 of 26 January 2006, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CLASSIFICATION OF BREAST CANCER PATIENTS USING A COMBINATION OF CLINICAL CRITERIA AND INFORMATIVE GENESETS

(57) Abstract: The present invention provides prognostic methods for conditions such as cancer, for example, breast cancer, comprising classifying an individual by a plurality of phenotypic, genotypic or clinical characteristics of the condition into a plurality of patient subsets, and analyzing the pattern of expression of prognosis-informative genes identified for that subset in a sample from the individual. The present invention also provides methods for constructing such patient subsets and of identifying prognosis-informative genesets for such subsets. The invention further provides methods of assigning a therapeutic regimen to an individual, microarrays useful for performing prognosis, kits comprising these microarrays, and computer systems and programs for implementing the methods of the invention.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07894

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68

US CL : 435/6

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, STN, brca1, correlat?, tumor?, tumour?, cancer?, carcinoma

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Van't Veer et al, Gene expression profiling predicts clinical outcome of breast cancer, Nature, 31 January 2002, Vol. 415, pages 530-536, see entire document.	1-11 and 33-41
X	WO 02/103320 A2 (ROSETTA INPHARMATICS INC.) 27 December 2002 (27.12.2002), see especially page 1, line 26 through page 10, line 34.	1-11 and 33-41

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

24 September 2005 (24.09.2005)

Date of mailing of the international search report

23 NOV 2005

Name and mailing address of the ISA/US

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/07894

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 12-32 and 42-87
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claims 12-32 and 42-87 refer to one or more Tables in the specification and so do not comply with PCT Rule 6.2(a).
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.